

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 2004/015456

A. CLASSIFICATION OF SUBJECT MATTERInt.Cl⁷ H01L33/00, H01S5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L33/00, H01S5/00 - 5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Elsevier, JICST (JOIS), IEEE/IEE Electronic Library

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0155682 A1 (SHIBATA et al.) 2002.10.24, [0042], [0057] - [0060], [0065]	1-4, 7-14
Y	- [0068], FIG.1-4 & EP 1245701 A2 & JP 2003-218045 A	5-6
Y	US 2003/0016526 A1 (SAKAI et al.) 2003.01.23, [0027]-[0028], FIG.3A, 3B & DE 010228781 A1 & JP 2003-017744 A	5-6
X	EP 0732754 A2 (TOYODA GOSEI CO., LTD.) 1996.09.18, Page 4 right column Line 31 - 43, FIG.1, 2 & TW 385555 B & JP 08-264831 A & JP 08-264832 A & JP 09-036422 A & JP 09-036423 A & US 5945689 A & US 6288416 B1 & US 2001/0045564 A1 & US 2004/0018657 A1	1-2, 12-14



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

17.01.2005

Date of mailing of the international search report

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/0055324 A1 (OTA et al.) 2001.12.27, [0077]-[0080], FIG.3 & JP 2001-274507 A	1-2, 12-14
A	ZHELEVA, Tsvetanka S. et al., MRS Internet J. Nitride Semicond. Res. 4S1, G3.38 (1999)	1